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9 January 1970

Copy No. 3

MEMORANDUM FOR: Deputy Director for Intelligence

SUBJECT: [ ] - Request for Additional Funds to Complete Contract [ ]

REFERENCE: Memorandum, O/Dir/NPIC to DDI, 7 May 1968, [ ]  
(Approval to Implement IIS at NPIC)

1. This memorandum requests approval for expenditure of [ ] to complete a portion of the software for the Integrated Information System (IIS). The request is set forth in paragraph 4.

2. The referenced memorandum (attached) granted approval to implement the Integrated Information System (IIS) and to commit up to [ ] for contractual programming support services. Contracts to accomplish the necessary programming were awarded to [ ] [ ] Costs to date since initiation in 1968 have been:

3. [ ] has submitted a request for additional funding [ ] to complete their portion of the program development effort. This request reflects an "overrun" on the contract that has resulted from an underestimate by [ ] of the complexity of the programming tasks, a situation not unusual in a system of this magnitude.

We have confidence in the technical capability of the [ ] personnel assigned to this contract. Additionally, we anticipate that the requested funds will be sufficient to complete the [ ] contract. We do, however, expect to commit additional funds for the other two contracts, but at a level which will keep the total cost within the original [ ] estimate.

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SUBJECT: [ ] Request for Additional Funds to  
Complete Contract [ ]

4. In view of our current dependence on [ ] to complete a  
substantial subset of the total IIS software, we request approval to  
negotiate an amendment to Contract [ ]  
[ ] not to exceed [ ]

5. Funds for the above are available within the NPIC FY 1970 *or FY-1968*  
Operating Budget. *for exp*

[ ]  
ARTHUR C. LUNDAHL  
Director  
National Photographic Interpretation Center

[ ]  
APPROVED: [ ]  
R. J. SMITH  
Deputy Director for Intelligence

21 Jan 1970  
Date

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7 May 68  
Copy 9

MEMORANDUM FOR: Deputy Director for Intelligence

SUBJECT: Request for Approval to Implement the Integrated Information System (IIS) at NPIC.

1. This memorandum requests approval to implement the Integrated Information System at NPIC as set forth in the recommendations under paragraph 5.

2. Background

a. In March 1966, NPIC entered into a contract with the [redacted] for the first phase of a proposed program designed to improve the NPIC digital information processing system. This phase, covering the analysis of the current system and the generation of an improved system conceptual design, was completed in November 1966 at a cost [redacted]

b. In December 1966 a contract for Phase 2, covering the system design and component specifications, was awarded to [redacted]. This phase was completed in November 1967 at a cost of [redacted]

c. Based on the best estimates available in late FY 1967, NPIC earmarked [redacted] in its Imagery Exploitation program and [redacted] in its Research and Development program for IIS software and hardware development from FY 1968 funds. Subsequently, implementation planning has pointed up the desirability of concentrating FY 1968 funds on software development. Consequently, the Center has initiated action to transfer budgeted funds from the R&D program to the Imagery Exploitation program.

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d. Additional funding for IIS equipment development has been projected in NPIC's R&D plans for FY 1969 [ ] and FY 1970 [ ]. While we have not completed our deliberations and reached a final conclusion, it may well be that the implementation of the system will permit us to dispense with a need for these funds for the IIS.

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e. Since November 1967, the Phase 2 design and component specifications have been extensively reviewed by NPIC. Briefings have been given to and/or comments on the design solicited from [ ] consultant to the Agency on ADP matters, NSA, COMIREX and various CIA components including OPPB, OCS, CRS, and DDI Planning Staff.

### 3. System Considerations

a. The Integrated Information System has been designed in a modular fashion which, according to the best available estimates of current and future multi-sensor systems [ ] should effectively meet NPIC needs for the next five to ten years. The system will support the following major functional production areas in the Center:

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- Maintenance of the National Data Base
- Demand-type Query/Response for Reporting Support
- Immediate Report Production
- Detailed Report Production
- Target Prediction

b. Comparison of IIS design functions with present system counterparts has enabled us to identify areas where improvements and/or savings potential exist. These areas are:

(1) Immediate Report Production - This area consists of all first and second phase exploitation activities beginning with the receipt of satellite film through film exploitation, to the generation of report hard copy masters. Based on the receipt of 20 satellite missions per year, it is estimated that 3,000 manhours and 40 computer hours per month can be reallocated to other critical tasks such as Third Phase Imagery Exploitation reports. In addition, the flexibility of the system will make possible greater operational efficiencies

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and possibly reduce the expenditure of overtime by Center components. Note that satellite immediate reporting represents about 26 percent of the Center's effort. Aircraft immediate reporting represents an additional 13 percent where similar benefits can be anticipated.

(2) Collateral Support Maintenance - This effort involves the continuous maintenance and updating of collateral information in the Center's data base, a part of the IIS but not included in the National Base of Imagery Derived Information (NBIDI) as set forth in the National Tasking Plan. Such information is necessary for recall by the PI in order to locate and/or identify installations or objects in the imagery interpretation process. The on-line IIS maintenance concept will assure currency of data base collateral data for query purposes, and is also expected to make available for reallocation to other tasks about 65 manhours and 20 computer hours per month.

(3) Certain intangible system benefits are also anticipated from the IIS's flexibility in areas such as maintenance of target/object information in the NBIDI. Readout information will be entered into the system using the on-line concept in a fraction of the time currently required, thus assuring currency of target information for both Center and Intelligence Community support when a computer-to-computer query capability is realized.

#### 4. Implementation Considerations

a. Considerable implementation planning remains, resulting in our anticipating an actual implementation start date of 1 July 1968. Implementation will require 24 calendar months to be phased into efforts as follows:

Phase 1 - Immediate Readout Support - 18 calendar months.  
Phase 2 - Pre-Mission Support - 22nd calendar month.  
Phase 3 - Detailed Report Support - 24th calendar month.

b. From this point forward the keystone of success for the IIS will be the continued planning and execution of system implementation. To ensure the success of this implementation the Center has established,

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within its ADP facility, a Project Organization. The Center weighed the alternatives of attempting to fully staff the Project Organization with the types of expertise required or to employ a mix of in-house staffing and contractual support. It is our judgment that the latter alternative offers the most cost-effective approach. Since a prerequisite is thorough familiarity with the IIS design, [redacted] was requested to submit a proposal on the cost of providing analysts who participated in the Phase 2 IIS design effort. A proposal for [redacted] was submitted, of which [redacted] has already been negotiated. This cost is in line with similar costs experienced by other agencies and the support is considered crucial to the successful implementation of the IIS.

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c. The programming effort to install the IIS is extensive, with an effort in excess of 700 man months anticipated. NPIC programmer availability analysis indicates a capability to provide approximately one-half of this effort. We are currently soliciting proposals from a number of commercial concerns for the remaining program packages required involving about 20 separate but interrelated computer programs for use in the UNIVAC 494 system. We expect to have a near-firm cost for this effort during May 1968. Estimates on this cost go as high as [redacted]. We aim to keep this expenditure as low as possible, consistent with our need to ensure that the contractor selected can provide the quality required.

d. [redacted] estimated that the NPIC workload for 1970 would require the on-line use of some 37 Cathode Ray Tube and 25 Teletype devices. These remote devices will be used for input, query and display purposes by imagery analysts, photogrammetrists, research specialists, and editors involved in the Center's production process. Since the IIS is modular in design, we will initially procure those devices required to support the current workload, adding additional devices only as the workload and cost effective analyses dictate. For planning purposes, we are using an "up to" [redacted] hardware requirement estimate.

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5. Based on the foregoing it is recommended that approval be granted for NPIC to:

a. Negotiate the balance of the contract with [redacted] for Project Organization analyst support. Funds currently committed are [redacted] and it is desired to supplement this with an additional [redacted]

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b. Commit up to [redacted] from FY 68 funds for contractual programming support.

c. Commit up to [redacted] from FY 69 funds for on-line Cathode Ray Tube display devices and Teletype printer/query devices to support the IIS design.

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ARTHUR C. LUNDAHL

Director

National Photographic Interpretation Center

APPROVED: [redacted]

/Deputy Director for Intelligence

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